

METHOD FOR FORMING A FLOW DIRECTOR ON
A HOT GAS PATH COMPONENT

ABSTRACT OF THE DISCLOSURE

[0057] A method for forming a flow director on a component having a wall includes depositing at least one layer on the wall of the component. The deposition includes shaping the layer in accordance with a predetermined shape to form the flow director. An exemplary component is a turbine component with a wall having a cold surface and a hot surface. At least one film-cooling hole extends through the wall, for flowing a coolant from the cold surface to the hot surface, and defines an exit site in the hot surface of the wall. An exemplary deposition process includes delivering a mixture through a nozzle onto the wall to form the layer, where the mixture includes a powder dispersed in a liquid medium, displacing the nozzle relative to the wall and controlling the movement of the nozzle relative to the wall to form the layer in accordance with the predetermined shape.